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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,289	07/14/2005	Brian Jones	01898-25808.US	5179
	7590 04/03/200 TH & WESTERN, LL	EXAMINER		
P.O. Box 1219		THERKORN, ERNEST G		
SANDY, UT 84	1091-1219		ART UNIT	PAPER NUMBER
			1797	
			MAIL DATE	DELIVERY MODE
			04/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		Application	on No.	Applicant(s)				
		10/505,28	39	JONES ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Ernest G.		1797				
Period fo	The MAILING DATE of this communication or Reply	on appears on the	cover sheet with the c	orrespondence ad	ddress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicatiful period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF TH CFR 1.136(a). In no evo ion. period will apply and w statute, cause the app	IIS COMMUNICATION ent, however, may a reply be tin II expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	•			
Status								
1)	Responsive to communication(s) filed on	14 January 200	R					
•	• •	This action is n						
3)□	<i>'</i> —	=		secution as to the	e merits is			
٥/ك	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
D::4	·	idor Ex parto da	ay, 0, 1000 0.D. 11, 10	70 0.0. 210.				
•	on of Claims							
•	Claim(s) <u>1-33</u> is/are pending in the application.							
	4a) Of the above claim(s) <u>18-33</u> is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)⊠	S)⊠ Claim(s) <u>1-17</u> is/are rejected.							
-	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction a	and/or election r	equirement.					
Applicati	on Papers							
9)	The specification is objected to by the Exa	aminer.						
10)	The drawing(s) filed on is/are: a)	accepted or b)	objected to by the I	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the co				FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) 🔲 Notic 3) 🔯 Infori	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 1/14/08.	48)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 102(B) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Sutton (U.S. Patent No. 6,103,112). The claims are considered to read on Sutton (U.S. Patent No. 6,103,112). However, if a difference exists between the claims and Sutton (U.S. Patent No. 6,103,112), it would reside in optimizing the steps of Sutton (U.S. Patent No. 6,103,112). It would have been obvious to optimize the steps of Sutton (U.S. Patent No. 6,103,112) to enhance separation.

Claims 5, 6, 9, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sutton (U.S. Patent No. 6,103,112) in view of Nickerson (U.S. Patent No. 6,423,120). At best, the claims differ from Sutton (U.S. Patent No. 6,103,112) in reciting up to several hundred watts. Nickerson (U.S. Patent No. 6,423,120) (column 5, lines 35-45) discloses a typical heater must be configured from 60 watts to achieve reasonable heat-up rates. It would have been obvious to use 60 watts in Sutton (U.S. Patent No. 6,103,112) because Nickerson (U.S. Patent No. 6,423,120) (column 5, lines

35-45) discloses a typical heater must be configured from 60 watts to achieve reasonable heat-up rates.

The remarks urge Sutton (U.S. Patent No. 6,103,112) does not rapidly heat his fluid. However, Sutton (U.S. Patent No. 6,103,112) on column 13, lines 9-13 and lines 32-35 discloses rapid and precise heating and cooling.

The remarks urge that Sutton (U.S. Patent No. 6,103,112) does not heat the fluid prior to entry into the column. However, Sutton (U.S. Patent No. 6,103,112) on column 12, lines 19-23 discloses use of a coil of capillary tubing prior to the column to establish heat transfer contact with the outer surface. As such, Sutton (U.S. Patent No. 6,103,112) discloses rapid heating or cooling of the fluid through the tubing before the fluid enters the column.

The remarks urge that Sutton (U.S. Patent No. 6,103,112) does not disclose claim 10's sensor. However, an inspection of Figure 7 reveals that temperature sensor 118 is closer to that portion of tubing 114 closer to column 106 than emerging from prefilter 98.

The remarks urge that Sutton (U.S. Patent No. 6,103,112) does not measure the temperature in the tubing. However, Sutton (U.S. Patent No. 6,103,112) on column 14, lines 7-20 discloses mounting the sensor on the tubing.

The remarks urge that the examiner has admitted that there is a difference between the claims and Sutton (U.S. Patent No. 6,103,112) based upon the limitation of use of up to several hundred watts. Rejecting the claims that have that limitation as being anticipated by Sutton (U.S. Patent No. 6,103,112) is not considered to be an

admission of a difference. The claims have been rejected as being anticipated by Sutton (U.S. Patent No. 6,103,112) because Sutton (U.S. Patent No. 6,103,112) inherently discloses that feature because its column 12, lines 42-45 resistance heater would have to use that much power to achieve Sutton (U.S. Patent No. 6,103,112)'s column 13, lines 9-13 and lines 32-35 rapid and precise heating and cooling. The supplemental back-up rejection of claims 5, 6, 9, and 15 employs the phrase "At best, the claims differ." This is not considered to be an admission.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ernest G. Therkorn/
Ernest G. Therkorn
Primary Examiner
Art Unit 1797

EGT March 24, 2008